

## **Pump-probe studies of absorption saturation and optical gain in Ce:LiCaAlF<sub>6</sub> ultraviolet active medium**

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### **Abstract**

Aim of this work was to investigate nonlinear absorption of pump radiation in UV spectral range of Ce<sup>3+</sup>:LiCaAlF<sub>6</sub> crystalline active medium. We were able to evaluate excited state absorption cross-section at pump wavelength (266 nm) and recombination probabilities by means of computer simulation. © Published under licence by IOP Publishing Ltd.

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